SOFTCOLOR TOOLBOX 2

USER MANUAL

> SOFTCOLOR INPUT.JPG OUTPUT.J
AUTOMATIC COLOR CORRECTION = ON
EQ - 0 0 0 10 20 0 0 0
EXPOSURE = +4
CONTRAST = +2
ROTATE AND CROP 12° CC
OUTPUT PROFILE : sRGB
> _

www.softcolor.fi/toolbox/

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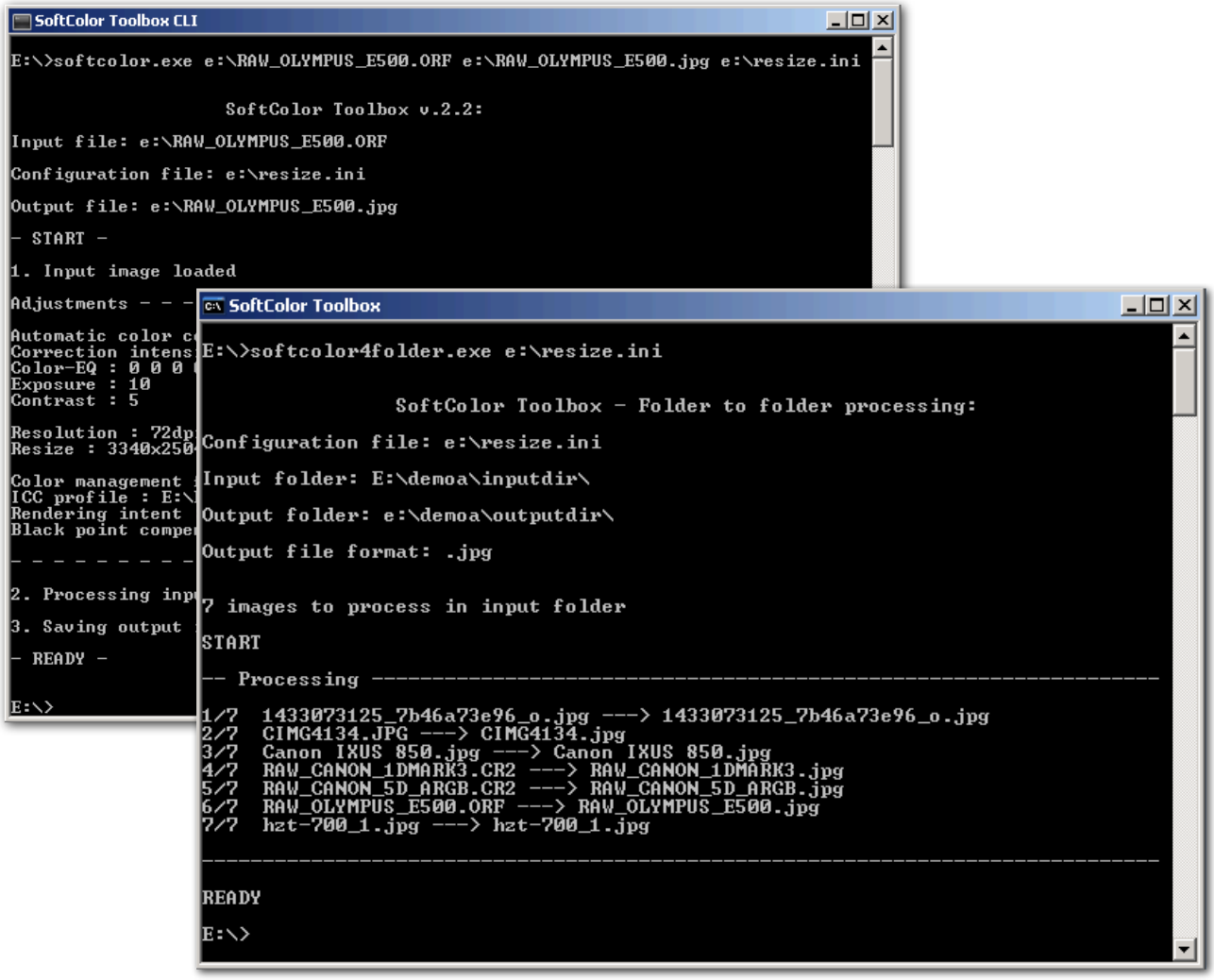
1.What is SoftColor Toolbox?

SoftColor Toolbox is a lightweight batch-processing and server software for advanced color correction, image processing and color management. SoftColor Toolbox operates with many digital image formats and with camera RAW formats. Toolbox can save processed images in JPEG, TIFF, PNG and PSD formats. With PSD-format Toolbox saves the original and improved images as separate layers inside single file. Toolbox handles ICC color profiles and you can convert and render between RGB and CMYK color spaces. You can operate with Toolbox in background server or batch process mode. It is operated by command-line interface and processing is based on INI-format configuration files.



Input image files or batch process folders

- Reads single files or entire directory as input
- Batch process all supported file formats in input directory
- Parameters are given as commend line arguments
  - Input file / folder
  - Output file / folder
- After firs run only new input images are processed
- Check input folder automatically for new unprocessed images
- Start server automatically running on background by Windows Service

Input Image Formats

- JPEG: RGB, GrayScale, YCbCr, CMYK, YCbCrK
- JPEG2000: JP2, J2K and JPC code stream formats (JPEG-2000 Part-1 standard, ISO/IEC 15444-1
- TIFF: Load and save TIFF (rev.6.0 and Tech.Note #2, Packbits, JPEG, LZW,) with RGB, CMYK, B/W, CIELab
- PSD
- Microsoft HD Photo
- PNG
- BMP
- PBM
- PGM
- PPM

Input Image RAW-formats

- DNG - Adobe
- CRW - Canon
- CR2 - Canon
- MRW - Minolta
- NEF - Nikon
- RAF - Fuji

- ORF - Olympus
- PEF - Pentax
- SRF - Sony
- ARW - Sony

Meta data input / output

Original EXIF, IPTC and XMP metadata information are saved to output file. XMP-metadata file (.xmp) can be also included to processed image. ICC profiles are embedded to output files when color management is used.

Output

- Saves input images to output folder in output format

Output Image Formats

- JPEG RGB
- JPEG CMYK
- TIFF RGB
- TIFF CMYK
- PNG
- BMP
- PSD with two layers

Color Correction

- Layer based 16-bit / pixel processing
- Automatic SoftColor Color Correction
- Color EQ for color tone adjustments
- Nonlinear Exposure
- Nonlinear Contrast
- Correction intensity, mixing correct / original images 0-100%

Image Processing

- Layer based processing
- Crop by width / height ratio
- Crop center point calculated automatically
- Resize by pixel dimension and save with or without aspect ratio
- Resizing landscape and portrait images with maximum height
- Resample images to specific DPI value
- Images are rotated automatically by EXIF-orientation information
- Rotate
- Straighten image
- Rotate and crop
- Flip / Mirror
- Automatic Sharpening
- Soften image
- Unsharp masking
- Motion blur
- Automatic Noise removing and image cleaning

Color Management

- Load specific icc-profile
- Convert output image to specific icc-profile
- Embedded icc profile to output image
- Only JPEG and TIFF formats supported

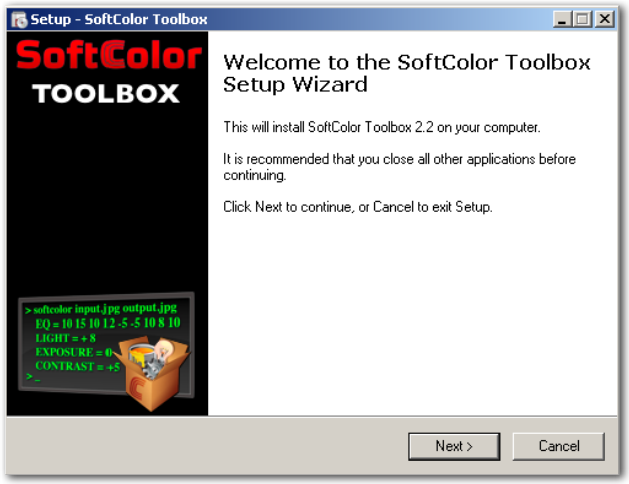
System Requirements

- Any PC running Windows 2000, Windows XP, Windows Vista, Windows 7, Windows Server 2003, Windows Server 2008
- 1000-MHz Pentium-class processor or better
- 1Gb of RAM
- 40 Mb of disc space
- SoftColor Toolbox is 32bit Windows application and it works on 32bit and 64bit Windows.
- Administrator rights are required for installing and configuring SoftColor Toolbox

1. Installing SoftColor Toolbox

Setup software

Installing process of SoftColor Toolbox is simple, just start SoftColorToolboxSetup.exe and install files to your computer. It is recommend that you allow setup software to add your Toolbox installation folder to PATH system variable.


Setup - SoftColor Toolbox
SoftColor
TOOLBOX
Welcome to the SoftColor Toolbox Setup Wizard
This will install SoftColor Toolbox 2.2 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
> softcolor input.jpg output.jpg
EQ = 10 15 10 12 -5 -5 10 8 10
LIGHT = +8
EXPOSURE = 0
CONTRAST = +5
Next >
Cancel

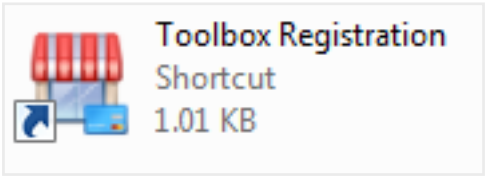
Installation folder has been added to systems PATH variable by default.

directoryserverservice.ini is saved to [Local Application Data]\SoftColor\Toolbox

Toolbox doesn't use any registry settings or require any specific DLL files.

Registering Trial Version of SoftColor Toolbox

After installing SoftColor Toolbox starts in 15 days fully working trial mode. You can buy full license to SoftColor Toolbox from our store www.softcolor.fi/toolbox/buy/. When you have purchased serial number for SoftColor Toolbox you can register your copy with **Toolbox Registration** tool: **[Start menu: SoftColor Toolbox -> Toolbox Registration]**



Register SoftColor Toolbox - Trial mode : 15 days left.
1. Buy SoftColor Toolbox. It is Fast, Simple and Secure.
Buy online using your web browser.
Buy
More Information at SoftColor Store
2. Enter your serial number below to register SoftColor Toolbox.
Register

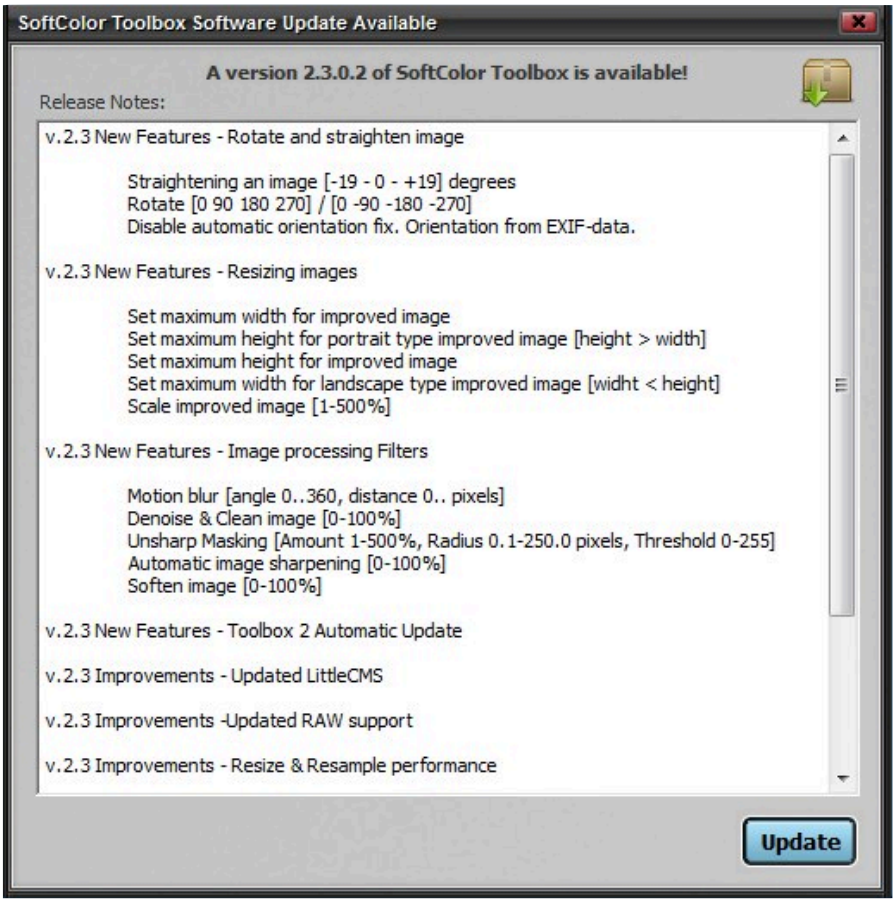
After entering valid serial number this message is shown.

SoftColor Toolbox - Licensed Version
Thanks for purchasing SoftColor Toolbox
SoftColor Toolbox is now licensed.
This license includes free updates for all 2.x versions of SoftColor Toolbox

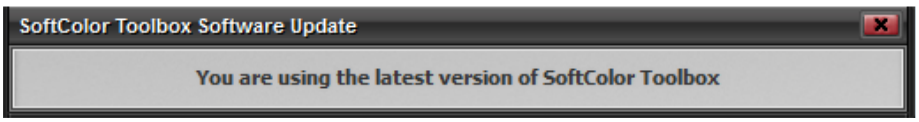
Automatic Software Updates for SoftColor Toolbox

SoftColor Toolbox 2.3 (or later) includes automatic software updates. You can check and download updates with **Toolbox Software Updates** tool : **[Start menu: SoftColor Toolbox -> Toolbox Software Updates]**. Stop Toolbox background service before updating.

If there is new version available, release notes are shown. You can start update process by clicking **Update**


SoftColor Toolbox Software Update Available
A version 2.3.0.2 of SoftColor Toolbox is available!
Release Notes:
v.2.3 New Features - Rotate and straighten image
Straightening an image [-19 - 0 - +19] degrees
Rotate [0 90 180 270] / [0 -90 -180 -270]
Disable automatic orientation fix. Orientation from EXIF-data.
v.2.3 New Features - Resizing images
Set maximum width for improved image
Set maximum height for portrait type improved image [height > width]
Set maximum height for improved image
Set maximum width for landscape type improved image [widht < height]
Scale improved image [1-500%]
v.2.3 New Features - Image processing Filters
Motion blur [angle 0..360, distance 0.. pixels]
Denoise & Clean image [0-100%]
Unsharp Masking [Amount 1-500%, Radius 0.1-250.0 pixels, Threshold 0-255]
Automatic image sharpening [0-100%]
Soften image [0-100%]
v.2.3 New Features - Toolbox 2 Automatic Update
v.2.3 Improvements - Updated LittleCMS
v.2.3 Improvements -Updated RAW support
v.2.3 Improvements - Resize & Resample performance
Update

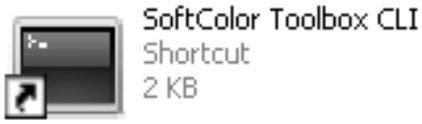
If you are running the latest version this message is

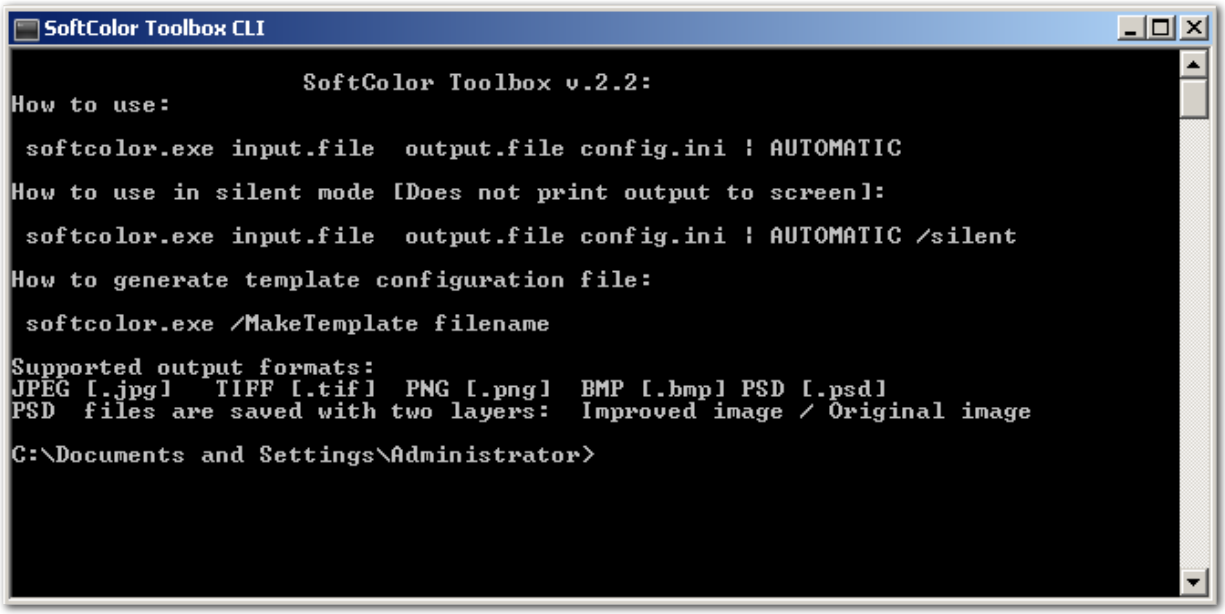


2. SoftColor Toolbox Usage

softcolor.exe	Main tool to process single files usage: *softcolor.exe input output config*
softcolor4folder.exe	Helper tool to process all files in input directory with single command usage: *softcolor4folder.exe confing*

You can start SoftColor Toolbox Command Line Interface form Start menu: SoftColor Toolbox -> SoftColor Toolbox CLI




SoftColor Toolbox CLI
SoftColor Toolbox v.2.2:
How to use:
softcolor.exe input.file output.file config.ini ¦ AUTOMATIC
How to use in silent mode [Does not print output to screen]:
softcolor.exe input.file output.file config.ini ¦ AUTOMATIC /silent
How to generate template configuration file:
softcolor.exe /MakeTemplate filename
Supported output formats:
JPEG [.jpg] TIFF [.tif] PNG [.png] BMP [.bmp] PSD [.psd]
PSD files are saved with two layers: Improved image / Original image
C:\Documents and Settings\Administrator>

You have to use full directory path to command line input / output / configuration parameters. If configuration file doesn't exit use AUTOMATIC parameter.

Fully Automatic Processing to Single Files

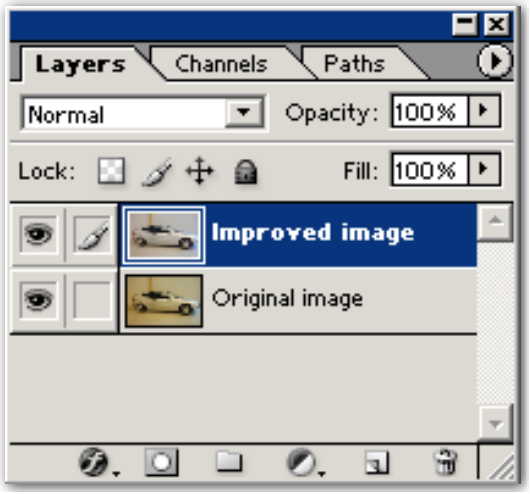
> *softcolor.exe path+input.ext path+output.exe NULL*

Example: > *softcolor.exe e:\demo.jpg e:\demo_fixed.png NULL*

With this command **softcolor.exe** SoftColor Toolbox will open input image, do automatic SoftColor color correction and save processed image to output file.

.jpg	.png	.tif	.psd	.bmp

If **.psd** file format is used, original and improved are stored in same output file as layers. Background is an original image and layer 1 is improved image.



Compression Settings for Output JPEG and TIFF Files

JPEG file compression settings

[JpegSettings]

jpegquality=

jpegoptimized=

Parameter	Value	Information
jpegquality	1-100	Quality factor, from 1 to 100. High values produce better image quality but require more disk space. Default 80
jpegoptimized	TRUE / FALSE	Baseline Optimization. If enabled, specifies the Jpeg compressor to use an optimal Huffman table (more compression). Default FALSE
jpegprogressive	TRUE / FALSE	Interlaced progressive JPEG format, in which data is compressed in multiple passes of progressively higher detail. Default FALSE

TIFF file compression settings

[TiffSettings]

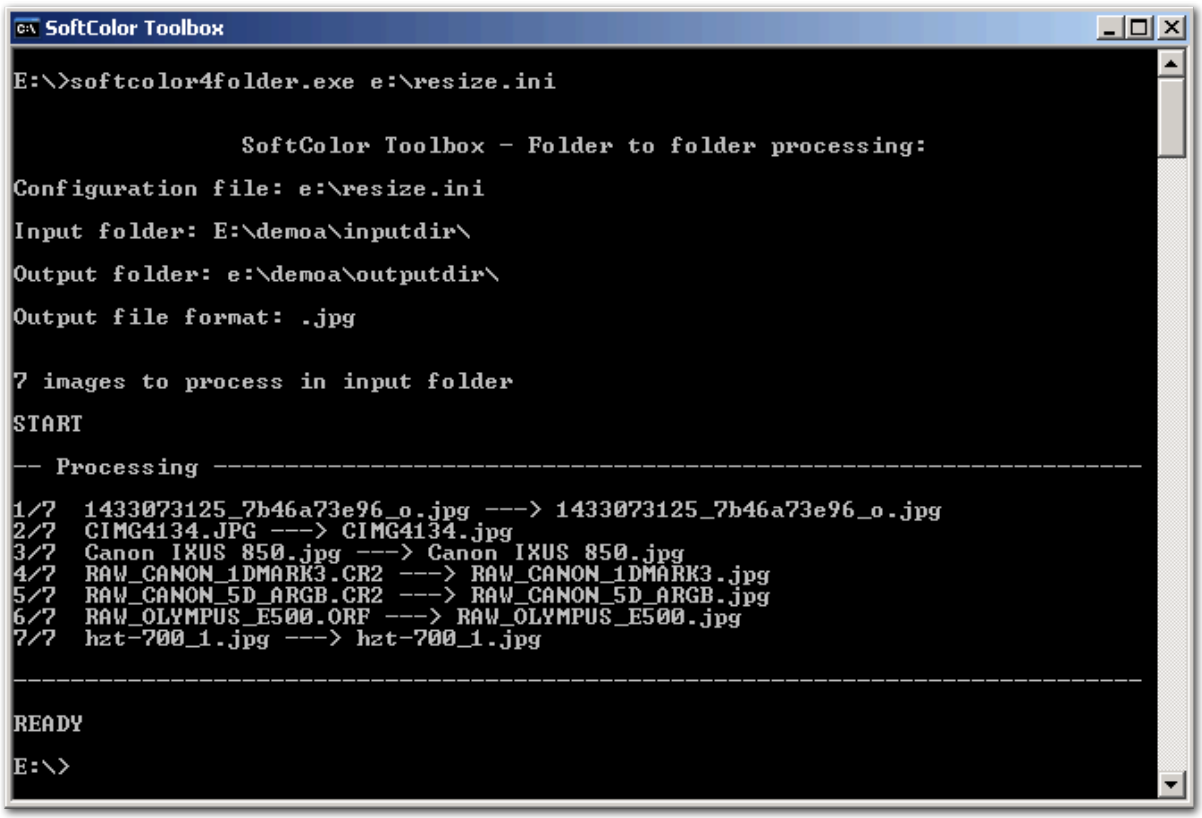
tiffcompression=

Parameter	Value	Information
jpegoptimized	FALSE / LZW / RLE	TIFF Compression: FALSE = Uncompressed TIFF. LZW = LZW compression. RLE = RLE compression. Default FALSE

Automatic Batch Processing to Folder

SoftColor Toolbox includes utility program **softcolor4folder.exe**. It process all supported file formats in input directory and saves files to output directory. **softcolor4folder.exe** uses **softcolor.exe** to process images, same input / output file formats used both single file or directory processing. All settings are read from INI-configuration file.

Example: > *softcolor4folder.exe settings.ini*



Processing Images with Background Server

SoftColor Toolbox includes utility program **directoryserver.exe**. It is on the background running version of **softcolor4folder.exe**. It starts runnign on the background and checks input directory for new files to process. **Directoryserver.exe** uses **softcolor.exe** to process images, same input / output file formats used both single file or directory processing. All settings are read from INI-configuration file. It uses same configuration parameters than directory.exe There can be multiple configurations running simultaneous (different configuration files).

Example - Start : > *directoryserver.exe configuration.ini start*

Example - Stop: > *directoryserver.exe configuration.ini stop*

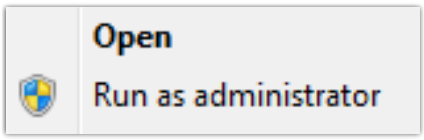
If there is white spaces in path or filename use double quotes for parameters
Example: > *directoryserver.exe “c:\configuration files\test.ini” start*

Automatic Starting for Input Directory Checking

DirectoryServerService.exe is MS Windows Service. Automatically starting when OS start and it is non interactive. By using it you can start multiple directory polling configuration DirectoryServer.exe process without need to login windows with certain user. When service is stopped it will stop all started DirectoryServer.exe polling applications automatically.

Installing DirectoryServerService.exe as Service

In Windows Vista, Windows 7, and Server 2008 you had to perform following operations as administrator via “**Run as administrator**” command.



You can install, uninstall and restart service from Windows Starts menu “SoftColor Toolbox” section. You will see message after successful installation

It is also possible to install, uninstall and restart DirectoryServerService.exe manually from command prompt.

Install: > *DirectoryServerService.exe /install*

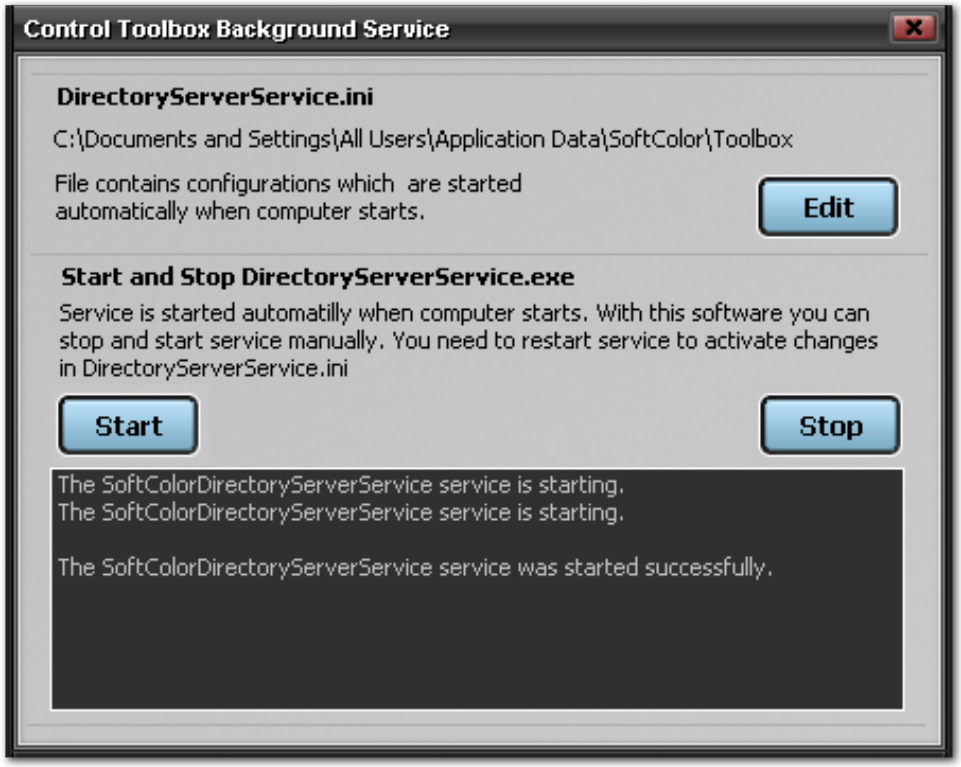
Unistall: > *DirectoryServerService.exe /uninstall*

Start: > *net start SoftColorDirectoryServerService*

Stop: > *net stop SoftColorDirectoryServerService*

Configuring Automatic Input Directory Checking

You can configure automatically starting configurations and restart background service with **Configure Service Tool**. [Start Menu - SoftColor Toolbox - Service - Configure Service]


Control Toolbox Background Service
DirectoryServerService.ini
C:\Documents and Settings\All Users\Application Data\SoftColor\Toolbox
File contains configurations which are started automatically when computer starts.
Edit
Start and Stop DirectoryServerService.exe
Service is started automatilly when computer starts. With this software you can stop and start service manually. You need to restart service to activate changes in DirectoryServerService.ini
Start
Stop
The SoftColorDirectoryServerService service is starting.
The SoftColorDirectoryServerService service is starting.
The SoftColorDirectoryServerService service was started successfully.

By clicking Edit button DirectoryServerService.ini will be opened to notepad.exe for editing. If DirectoryServerService.ini is missing template will be created automatically.

```
[workflowstostart]
configFile1=c:\config1.ini
configFile2=c:\config2.ini
configFile3=c:\config3.ini
```

If you make modifications to DirectoryServerService.ini, you have to restart service to activate them.

Customize Processing Settings

Custom processing settings are stored to separate INI-configuration files and it is given as a parameter to **softcolor.exe**, **softcolor4folder.exe or directoryserver.exe**. Read more about custom settings from Configuration Files Chapter.

3. Configuration Files

SoftColor Server Toolbox configuration files are stored in INI-flies. Configuration files uses following format:

Parameters

The basic element contained in an INI file is the parameter. Every parameter has a name and a value, delimited by an equals sign (=). The name appears to the left of the equals sign.

name=value

Sections

Parameters may be grouped into arbitrarily-named sections. The section name appears on a line by itself, in square brackets ([and]). All parameters after the section declaration are associated with that section.

[section]

Comments

Semicolons (;) indicate the start of a comment. Comments continue to the end of the line. Everything between the semicolon and the End of Line is ignored.

; comment text

Example of Toolbox Configuration Format

```
[ColorCorrection]
automatic=TRUE
;automatic = Enable or disable SoftColor automatic color correction [color balance, exposure, contrast]
intensity=50
exposure=10
contrast=5

[ColorManagement]
iccprofile=E:\Profiles\RGB\AdobeRGB1998.icc
renderingIntent=PERCEPTUAL
;Values : PERCEPTUAL / RELATIVE COLORIMETRIC / ABSOLUTE COLORIMETRIC / SATURATION

[Folders]
inputfolder=E:\demo\inputdir
outputfolder=e:\demo\outputdir\
deleteinput=FALSE
```

Automatic Configure File Generation

You can generate template configuration file with all available adjustments. Configure template INI file is generated by command:

> *softcolor.exe /MakeTemplate c:\FiletoSaveTemplate.ini*

This template contains all adjustments for color correction, image processing and color management. Add value to each adjustment or remove it. If adjustment removed then default value is used or adjustment is disabled

Directory Processing

Directory processing is only available if **softcolor4folder.exe** is used to start SoftColor Toolbox. Directory processing settings are configured at two sections in configuration files.

[Folders]

inputfolder=
outputfolder=
deleteinput=

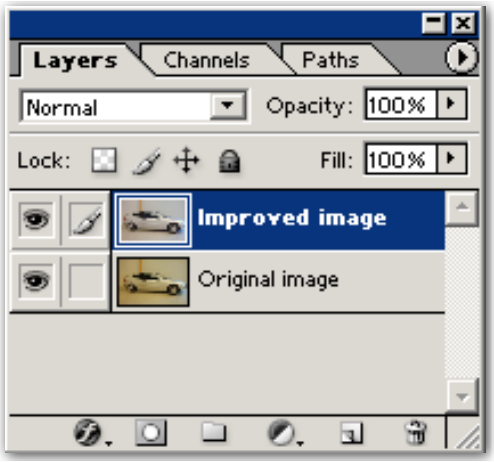
[OutputFormat]

format=

In **OutputFormat** section you can select output file **format** by following parameters

JPG	PNG	TIF	PSD	BMP

If **psd** file format is used, original and improved are stored in same output file as layers. Background is an original image and layer 1 is improved image.



JPEG file compression settings

[JpegSettings]
jpegquality=
jpegoptimized=

Parameter	Value	Information
jpegquality	1-100	Quality factor, from 1 to 100. High values produce better image quality but require more disk space. Default 80
jpegoptimized	TRUE / FALSE	Baseline Optimization. If enabled, specifies the Jpeg compressor to use an optimal Huffman table (more compression). Default FALSE

Input and output folders are set in **folders** section

[folders]
inputfoldet=*path*
outputfolder=path
deleteinput=TRUE / FALSE

Use following format for path

[drive]:\[directory]\[directory]

Example: *E:\demo\input*

All supported file formats are read from **input** directory and they will be saved to **output** directory. Output format is **format** parameter

If **deleteinput** is set and it's value is TRUE then original files are deleted after processing.

Color Correction

Color Correction settings are configured in **ColorCorrection** section

[ColorCorrection]
automatic=

intensity=
eq1=
eq2=
eq3=
eq4=
eq5=
eq6=
eq7=
eq8=
eq9=
eq10=
exposure=
contrast=

Parameter	Value	Information
automatic	TRUE / FALSE	Value = TRUE automatic color correctio enabled. Value = FALSE automatic color correction disabled.
intensity	0-100 / default = 100	Correction Intensity = How much original and improved images are mixed Value = 100 only improved image visible. Value = 0 only original image visible. If value is between 1 - 99 then original image has been mixed to improved image by percentage value
eq1	- 50 - 50 / default = 0	Adjust amount of color
eq2	- 50 - 50 / default = 0	Adjust amount of color
eq3	- 50 - 50 / default = 0	Adjust amount of color
eq4	- 50 - 50 / default = 0	Adjust amount of color
eq5	- 50 - 50 / default = 0	Adjust amount of color
eq6	- 50 - 50 / default = 0	Adjust amount of color
eq7	- 50 - 50 / default = 0	Adjust amount of color
eq8	- 50 - 50 / default = 0	Adjust amount of color
eq9	- 50 - 50 / default = 0	Adjust amount of color
eq10	- 50 - 50 / default = 0	Adjust amount of color
exposure	- 50 - 50 / default = 0	Adjust exposure (non-linear)
contrast	- 50 - 50 / default = 0	Adjust contrast (non-linear)

Image Processing

Image processing settings are configured in **Resize, Resolution, Rotate, Straighten, Flip, Crop, Sharpness, Softness, Denoise, UnSharpMask, MotionBlur** sections

[Resize]
scale=
xsize=
ysize=
maxHeight=
maxWidth=
portraitHeight=
landscapeWidth=

Parameter	Value	Information
scale	1-500	Scales improved image width and height. (aspect ratio saved)
xsize	1-	Width to improved image. If ysize not defined then new height will be calculated automatically (aspect ratio saved)
ysize	1-	Height to improved image. If xsize not defined then new width will be calculated automatically (aspect ratio saved)
portraitHeight	1-	Maximum height for portrait image [height > width]. Doesn't affect to landscape images. (aspect ratio saved)
landscapeWidth	1-	Maximum width for landscape image [width > height]. Doesn't affect to portrati images. (aspect ratio saved)
maxHeight	1-	Scales down improved image height if it is more than maxHeigh value. (aspect ratio saved)
maxWidth	1-	Scales improved image width if it is more than maxWidth value. (aspect ratio saved)

[Resolution]
dpi=

Parameter	Value	Information
dpi	1-	Resolution of improved image. Default value is input images resolution.

[Rotate]
angle=

Parameter	Value	Information
angle	-90,-180,-270 90,180,270	Rotate improved image. Positive values rotates clockwise. Negative values rotates counter clockwise. Values :
autoRotate	TRUE / FALSE	Disable automatic orientation adjustment. Image rotated automatically by EXIF orientation TAG. Default value is TRUE.

[Straighten]
strAngle=

Parameter	Value	Information
angle	-19 - +19	Straighten and Crop improved image. Positive values rotates clockwise. Negative values rotates counter clockwise

[Flip]
horizontal=
vertical=

Parameter	Value	Information
horizontal	TRUE / FALSE	Flip improved image across the horizontal axis
vertical	TRUE / FALSE	Flip improved image across the vertical axis

[Crop]
cropx=
cropy=

Parameter	Value	Information
cropx	1-	Cropping width ratio [width / height]
cropy	1-	Cropping height ratio [width / height]

[Sharpen]
sharpness=

Parameter	Value	Information
sharpness	0-100	Sharpen improved image automatically

[Soften]
softness=

Parameter	Value	Information
softness	0-100	Soften improved image

[DeNoise]
deNoiseAmount=

Parameter	Value	Information
deNoiseAmount	0-100	Remove noise and clean improved image

[UnSharpMask]
usmAmount=
usmRadius=
usmThreshold=

Parameter	Value	Information
usmAmount	1-500	Unsharp masking amount [%]
usmRadius	1-255	Unsharp masking radius [pixels]. Default value is 4.
usmThreshold	0-255	Unsharp masking threshold. Default value is 5.

[MotionBlur]
mbEnabled=
mbAngle=
mbDistance=

Parameter	Value	Information
mbEnabled	TRUE/FALSE	Is motion blur effect enabled.
mbAngle	0-360	Motion blur angle [degrees]
mbAngle	0-	Motion blur distance [pixels]

Color Management

Color management settings are configured in **ColorManagement** section

[icc]
iccprofile=
renderingIntent=
useBlackPoint=

In **ColorManagement** section you can adjust color management by following parameters

iccprofile value define icc-profile which is used to output image. Output image is converted to icc-profile (RGB or CMYK). In **profile** value path and filename must be set, eg. *e:\srgb.icc*

renderingIntent defines rendering Intent for ICC profile conversion.

Value can be:
PERCEPTUAL
RELATIVE COLORIMETRIC
ABSOLUTE COLORIMETRIC
SATURATION

useBlackPoint has two values TRUE or FALSE. If value is TRUE then black point compensation is used.

XMP-Metadata

With XMP configuration you can include XMP data to processed image [JPEG, TIFF, PSD]. XMP-data is read from .xmp file and store to image.

[XMP]
xmpFileName=

xmpFileName Include XMP-metadata file to processed image [JPEG / TIFF / PSD]
Values : XMP file filename + path.

4. Example Configuration

```
[Folders]
format=png
input=E:\demo\input
output=E:\demo\output
[ColorCorrection]
automatic=TRUE
exposure=5
intensity=50
[ColorManagement]
iccprofile=E:\sRGB.icc
renderingIntent=PERCEPTUAL
useBlackPoint=FALSE
```

With this configuration files are saved in PNG-format. Images are color corrected automatically and more exposure will be adjusted. Original and improved images are mixed 50%. Output files are converted to sRGB icc-profile. In following images you can see difference between automatic processing and use of this example configuration file.

Original Image - Automatically processed image - Image processed by example configuration

5. Acknowledgments

SoftColor Toolbox software utilize the following copyrighted material, the use of which is hereby acknowledged.

Fugue Icons

The icons are licensed under a Creative Commons Attribution 3.0 license by Yusuke Kamiyamane.

http://p.yusukekamiyamane.com/

Jonas Rask's "Danish Royaly Free" icon set

Some of the icons used in SoftColor Toolbox software are taken from Jonas Rask's "Danish Royaly Free" icon set.

http://jonasraskdesign.com/

Tango Desktop Icons

The color palette is public domain. The icon theme is also available as public domain since the 0.8.90 release.

http://tango.freedesktop.org/Tango_Icon_Library

JEDI Visual Component Library

Mozilla public license

http://jvcl.delphi-jedi.org/

Graphics32

Mozilla Public License

http://graphics32.org/wiki/

LittleCms

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http://www.littlecms.com/

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Inno Setup

SoftColor Toolbox installer is built using Inno Setup free installer for MS Windows.

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http://www.jrsoftware.org/isinfo.php

http://www.jrsoftware.org/files/is/license.txt

DCRAW

dcraw.c -- Dave Coffin's raw photo decoder. Copyright 1997-2010 by Dave Coffin.
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http://cybercom.net/~dcoffin/dcraw/

JPEG

http://www.ijg.org/

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PNG

http://www.libpng.org/

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JPEG2000

http://www.ece.uvic.ca/~mdadams/jasper/

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